



Electronics

Multimode Relay MT

- 2 / 3 pole 10 A, 2 CO or 3 CO contacts
- DC and AC coils
- Mechanical indicator as standard
- Electrical indicator
- New test system with front operated finger protected push-to-test button and integral locking test tab
- White write on panel
- RoHS compliant (Directive 2002/95/EC) as per product date code 0415

Applications

Mechanical engineering, plant control

Approvals

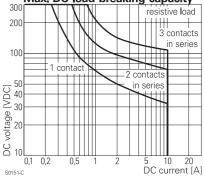
🚾 REG.-Nr. 6182, C 🕄 US E214025 Technical data of approved types on request

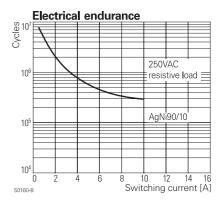
Contact data			
Contact configuration	2 CO or 3 CO		
Contact set	single cont.	single cont.	bifurcated
Type of interruption	micro disconnection		
Rated current	10 A	10 A	4 A
Rated voltage / max.switching voltage AC		240/400 VAC	
Maximum breaking capacity AC	2500 VA	2500 VA	500 VA
Limiting making capacity, max 20 ms	20 A	20 A	8 A
Contact material	AgNi90/10	AgNi90/10	AgNi90/10
		gold plated	gold plated
Minimum contact load	12V/10mA	20mV/1mA	20mV/1mA
Mechanical endurance		20x10 ⁶ cycles	
Rated frequency of operation with / without I	20/100 min ⁻¹		



E0161-A

Max. DC load breaking capacity





Coi	۱d	ata

Contact ratings

Load

Type MT32

MT321

MT321

MT3.

MT2

MT2

Rated coil voltage range DC coil	6220 VDC
AC coil	6230 VAC
Coil power DC coil	1.2 W
AC coil	2.3 VA
Operative range	1

10 A, 250 VAC, CO contact, cosφ=1, 360/h, df 50%, 35°C

lon 50 A, loff 5 A, 3x440 VAC, NO, cosφ=0.3, AC15, normal cond. lon 30 A, loff 3 A, 3x440 VAC, NC, cosφ=0.3, AC15, normal cond. 2 A, 125 V, L/R 30 ms, 3 NO contacts in series, 1800/h, DF 10% 0.7 A, 125 V, L/R 20 ms, 2 NO contacts in series, 1800/h, DF 10%

1 A, 125 V, L/R 20 ms, 2 NO contacts in series, 1800/h, DF 10%

Coil versions, DC-coil

Coil code	Э	Rated	Operate	Release	Coil	Rated coil
STD	PD*)	voltage	voltage	voltage	resistance	power
		VDČ	VDC	VDČ	Ohm	W
006	0A6	6	4.5	0.6	32±10%	1.1
012	0B2	12	9.0	1.2	110±10%	1.3
024	0C4	24	18.0	2.4	475±10%	1.2
048	0E8	48	36.0	4.8	2000±10%	1.2
060	0G0	60	45.0	6.0	2850±10%	1.3
110	1B0	110	82.5	11.5	10000±12%	1.2
220	2C0	220	165.0	22.0	40000±15%	1.2
All figures are given for coil without preenergization, at ambient temperature +23°C						

*) Protection diode PD; standard polarity: 2-pole relays: +2 / -7, 3-pole relays: +2 / -10

Datasheet Rev. EK1 Issued 2005/11 www.tycoelectronics.com www.schrackrelays.com

Dimensions are in mm unless otherwise specified and are shown for reference purposes only.

Product specification according to IEC 61810-1. Product data, technical parameters, test conditions and

Cycles

2.2x10⁵

6x10³ <u>6x10³</u>

1x10⁵

2x105

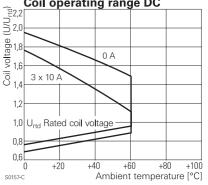
4x10⁴

processing information only to be used together with the 'Definitions' at schrackrelays.com in the 'Schrack' section.

Specifications subject to change.

1

Coil operating range DC





General Purpose Relays



Electronics

Multimode Relay MT (Continued)

Coil versions, AC-coil 50/60 Hz

Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
		50/60Hz	50/60Hz		50/60Hz
	VAC	VAC	VAC	Ohm	VA
006	6	4.8	2.4	5.3±10%	2.29/1.98
012	12	9.6	4.8	24±10%	2.19/1.86
024	24	19.2	9.6	86±10%	2.26/1.95
048	48	38.4	19.2	345±10%	2.28/1.97
060	60	48.0	24.0	544±10%	2.27/1.96
115	115	92.0	46.0	2000±10%	2.37/2.00
230	230	184.0	92.0	8300±12%	2.32/1.96
All figures are given for call without presentation, at ambient temperature, 2000					

All figures are given for coil without preenergization, at ambient temperature +23°C

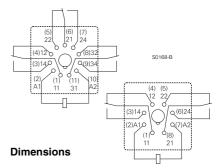
Insulation

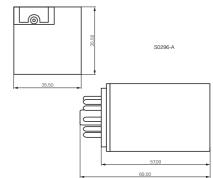
2500 V _{rms}	
1500 V _{rms}	
2500 V _{rms}	
≥ 2.8/4.0 mm	
≥ 2.8/4.0 mm	
≥ Illa	
basic	
functional	
basic	
250 V	
2	
240/400 V	
III	
	1500 Vrms 2500 Vrms ≥ 2.8/4.0 mm ≥ 2.8/4.0 mm ≥ Illa basic functional basic 250 V 2 240/400 V

Coil operating range AC (^{p12,2} N/0)^{2,0} , voltage 1,8 1,6 Coil 0 A 3 x 10 A 1,2 1,0 U_{rtd} Rated coil voltage 0,8 0.6 Û +20+40+60 +80+100Ambient temperature [°C] S0158-C

Terminal assignment

Bottom view on pins





Accessories

Packaging unit

Other data

RoHS - Directive 2002/95/EC

Bounce time NO / NC contact

Operate- / release time

Category of protection Relay weight

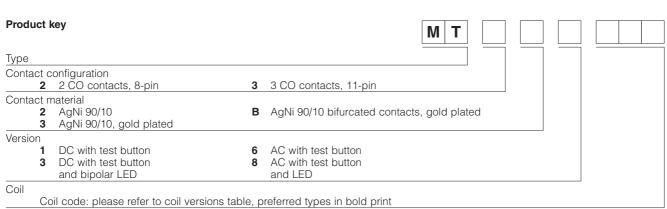
Ambient temperature range DC coil

Vibration resistance (function) NO / NC contact

Shock resistance (function) NO / NC contact

AC coil

For details see datasheet



compliant as per product date code 0415

-40...+60°C <u>-45...+50°</u>C

12/5 ms

4 ms

5/2 g

50/10 g RTI - dust protected

80 g

25 pcs

Accessories Multimode Relay MI

Other types on request

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Specifications subject to change.

2



General Purpose Relays



Multimode Relay MT (Continued)

Product key	Contact configuration	Contact material	Version	Coil	Part number
MT221012	2 CO contacts	AgNi 90/10	DC	12 VDC	4-1393090-9
MT221024	8-pin	0	with test button	24 VDC	5-1393090-0
MT221048				48 VDC	5-1393090-1
MT221060				60 VDC	5-1393090-2
MT221110				110 VDC	5-1393090-3
MT221220				220 VDC	5-1393090-4
MT223024			DC+LED+test button	24 VDC	5-1393090-7
MT226012			AC	12 VAC	6-1393090-3
MT226024			test button	24 VAC	6-1393090-4
MT226048				48 VAC	6-1393090-5
MT226115				115 VAC	6-1393090-7
MT226230				230 VAC	6-1393090-8
MT228024			AC+LED	24 VAC	6-1393090-9
MT228115			test button	115 VAC	7-1393090-0
MT228230				230 VAC	7-1393090-1
MT321012	3 CO contacts	AgNi 90/10	DC	12 VDC	6-1393091-8
MT321024	11-pin	5	with test button	24 VDC	7-1393091-0
MT321048				48 VDC	7-1393091-1
MT321060				60 VDC	7-1393091-2
MT321110				110 VDC	7-1393091-4
MT321220				220 VDC	7-1393091-7
MT323024			DC+LED+test button	24 VDC	8-1393091-4
MT3230C4			DC+LED+PT+TB	24 VDC	7-1393091-9
MT326012			AC	12 VAC	9-1393091-6
MT326024			test button	24 VAC	9-1393091-7
MT326048				48 VAC	9-1393091-8
MT326115				115 VAC	0-1393092-1
MT326230				230 VAC	0-1393092-2
MT328024			AC+LED	24 VAC	0-1393092-4
MT328115			test button	115 VAC	0-1393092-7
MT328230				230 VAC	0-1393092-8
MT331024		AgNi 90/10	DC	24 VDC	1-1393092-1
MT331110		gold plated	with test button	110 VDC	1-1393092-3
MT331220		0		220 VDC	1-1393092-5
MT333024			DC+LED+test button	24 VDC	1-1393092-8
MT3330C4			DC+LED+PD+TB	24 VDC	1-1393092-6
MT333110			DC+LED	110 VDC	2-1393092-0
MT333220			test button	220 VDC	2-1393092-2
MT336115			AC	115 VAC	2-1393092-5
MT336230			test button	230 VAC	2-1393092-6
MT338024			AC+LED	24 VAC	2-1393092-7
MT338115			test button	115 VAC	8-1415025-1
MT338230				230 VAC	2-1393092-8

Specifications subject to change.

³